

SECRFT 1219257 MARCH 68 CITE 3216. 1968 MAR 12 20	08 Z 25X1 25X1	^
ATTN:	645X6	_
SUBJ: TELEMETRY OUTPUT DATA RECORDED FROM MISSIONS FLOWN BY THE SR-71 RECONNAISSANCE SYSTEM.		
1. THE SR-71 VEHICLE CONTAINS A MISSION RECORDER SYSTEM (MRS) WHICH MONITORS VEHICLE AND SENSOR DATA FOR AN ENTIRE MISSION. THIS DATA IS NECESSARY FOR PRECISE MENSURATION IN SUPPORT OF		
SECOND AND THIRD PHASE PRODUCT EXPLOITATION.	FS 25X1	
2. IS NOT AWARE OF AN OPERATIONAL PROCEDURE WHICH PROVID FOR THE DISSEMINATION OF THE MRS DATA TO THE CUSTOMERS RECEIVING THE IMAGERY. TO ELIMINATE THIS DEFICIENCY. IT IS REQUESTED THAT A		
REQUIREMENT BE LEVIED WHICH PROVIDES FOR THE RECEIPT AT OF MRS DATA FOR EACH OPERATIONAL SR-71 MISSION.	25X1	
HOURS BEFORE THE IMAGERY SO THAT THE DATA CAN BE PROCESSED THROUGH	25X1	
CORRELATING THE DATA TO THE IMAGERY EITHER BY CABLE REPORT OR BY	•	
CAMERA FIRING SIGNALS RECORDED ON THE MRS DATA TAPE. 4. THE DATA TAPE SHOULD INCLUDE AT LEAST THE FOLLOWING ITEMS DIST	PIRITION 2	٦
Cy No.	Office Action	井
	File Cable Sec.	-
PAGE 2 3216 S E C R E T FOR MENSURATION ON EACH FRAME OF IMAGERY:	25X1	
A. BAROMETRIC ALTITUDE WITH "D" VALUE PRESSURE CORRECTION		
B. RADAR ALTITUDE (WHEN RECORDED).	Security	
C. GROUND TRACK VELOCITY. D. VEHICLE TO GROUND ROLL, VEHICLE TO GROUND PITCH, VEHICLE	15563,45	
TO GROUND YAW. E. VELOCITY OVER SLANT RANGE RATIO AT WHICH THE CAMERAS OPERATED	P\$G	
OPERATED. F. GROUND TRACK AZIMUTH OF VEHICLE NADIR LINE. IF THIS IS	TEO	
NOT AVAILABLE, VEHICLE HEADING CAN BE SUBSTITUTED. G. LATITUDE AND LONGITUDE OF VEHICLE NADIR.	IAS DIAXX-4	
H. TIME, ACCURATE TO 0.1 SECOND (RECORD IN GREENWICH MEAN TIME OR MISSION ELAPSED TIME AND PROVIDE A METHOD TO CONVERT FROM	57AD 25X1	
ONE TO THE OTHER). I. CAMERA TO VEHICLE ROLL, CAMERA TO VEHICLE PITCH, CAMERA TO VEHICLE PITCH PI	,	
TO VERTOLE THW.		
J. SHUTTER VELOCITY FOR THE TECHNICAL OBJECTIVE CAMERA. K. SCAN RATE FOR THE OPERATIONAL OBJECTIVE CAMERA.	Advance Copy	
OTHER ITEMS RECORDED ON THE MRS TAPE WILL ASSIST IN PLOTTING THE	Sanitized 📜	
Declassification Review by NGA	•	
PAGE 3 3216 S E C R E T	25 X 1	
MISSION AND DETERMINING THE ACCURACY OF THE ABOVE 16 PARAMETERS. SOME ITEMS (E.G., CAMERA MODE AND POINTING ANGLE) DESIRABLE TO		
NPIC ARE NOT RECORDED ON THE MRS TAPE BUT COULD POSSIBLY BE ADDED. THESE ITEMS REQUIRE FURTHER DEFINITION BY MRS PERSONNEL BEFORE		
CAN SAY WHETHER THE PARAMETERS ARE REQUIRED. 5. DISCUSSIONS WILL HAVE TO BE CARRIED OUT BETWEEN AND	25X1 25X1	
SAC (BEALE AFB) TO SOLVE THE TECHNICAL PROBLEMS OF SUPPLYING THE		
DATA. THE SUBJECT WAS DISCUSSED INFORMALLY BETWEEN AND BEALE PERSONNEL DURING THE NICE GIRL EXERCISE. THE ACTUAL RELAY OF	25X1	

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Excited from automati declassification.

MRS DATA WOULD BE QUICKEST AND EASIEST BY UNIVAC 1004 DATA LINK.

THE FORMAT TO BE TRANSMITTED VIA THE 1004 CAN BE WORKED OUT BY

AND SAC.

6. TO SUMMARIZE, HAS A NEED FOR DATA RECORDED BY THE

MRS ON SR-71 MISSIONS. AT THE PRESENT TIME, NO PROCEDURE EXISTS

TO TRANSMIT THE DATA TO REQUESTS THAT A REQUIREMENT

BE ISSUED TO SUPPLY THIS DATA IN A TIMELY MANNER FOR EACH MISSION.

AFTER THIS REQUIREMENT IS ISSUED, AND SAC CAN WORK OUT

THE TECHNICAL ASPECTS OF THE TRANSMISSION TO THEIR SATISFACTION.

IT IS DESIRED THAT A COMPLETE TRANSMISSION PROCEDURE BE DEVELOPED

PRIOR TO ANY IMPENDING ACTIVITY.

SECRET

END OF MESSAGE